

Aamir Shehzad

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🇵🇰 Pakistani 📅 20 May 1998 👤 Male



25th January, 2024

Admissions Office

Chalmers University of Technology

Reference: 20230761 - PhD Position in Probability, Analysis, and AI

Dear Members of the Admissions Committee,

I am writing to express my enthusiastic interest in the **PhD position in Mathematics for AI** at Chalmers University of Technology, as advertised under Reference number **20230761**. My academic and professional background, coupled with a fervent passion for the intersection of probability theory, analysis, and machine learning, aligns well with the objectives of the project under the supervision of Associate Professor Pierre Nyquist.

I am currently serving as a mathematics teacher at Jinnah Education System in Pakistan, where I have had the opportunity to impart knowledge and cultivate a deep appreciation for mathematical principles. In 2022, I completed my Master's in Mathematics, focusing on the application of artificial intelligence in healthcare. My master's thesis, titled "**Prediction of Diabetes Using Improved Artificial Neural Network Model**," allowed me to delve into the intricacies of machine learning and its practical applications.

The prospect of contributing to the understanding of mathematical principles underlying modern machine learning methods, as outlined in the project description, deeply resonates with my academic and research aspirations. I am particularly drawn to the dynamic research areas proposed, including the analysis of learning algorithms, generalization properties of deep learning methods, and stochastic networks.

My educational journey has equipped me with a strong foundation in mathematics, and my experience in applying artificial intelligence to real-world problems has honed my analytical and research skills. Furthermore, I possess excellent presentation and communication skills in both oral and written English, as evidenced by my master's thesis and teaching responsibilities.

I am attracted to the collaborative and international environment offered by the Department of Mathematical Sciences at Chalmers University of Technology. The opportunity to be part of the Wallenberg AI, Autonomous Systems and Software Program (WASP) cluster in AI/Math is particularly appealing, and I am excited about the prospect of contributing to this vibrant academic community.

Enclosed, please find my CV, references, and relevant documents, including my Master's thesis. I am eager to discuss in more detail how my background and aspirations align with the goals of the PhD project during an interview.

Thank you for considering my application. I look forward to the possibility of contributing to and thriving in the stimulating academic environment at Chalmers University of Technology.

Sincerely,

Aamir Shehzad
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